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# External Interface Design

**George Chang**

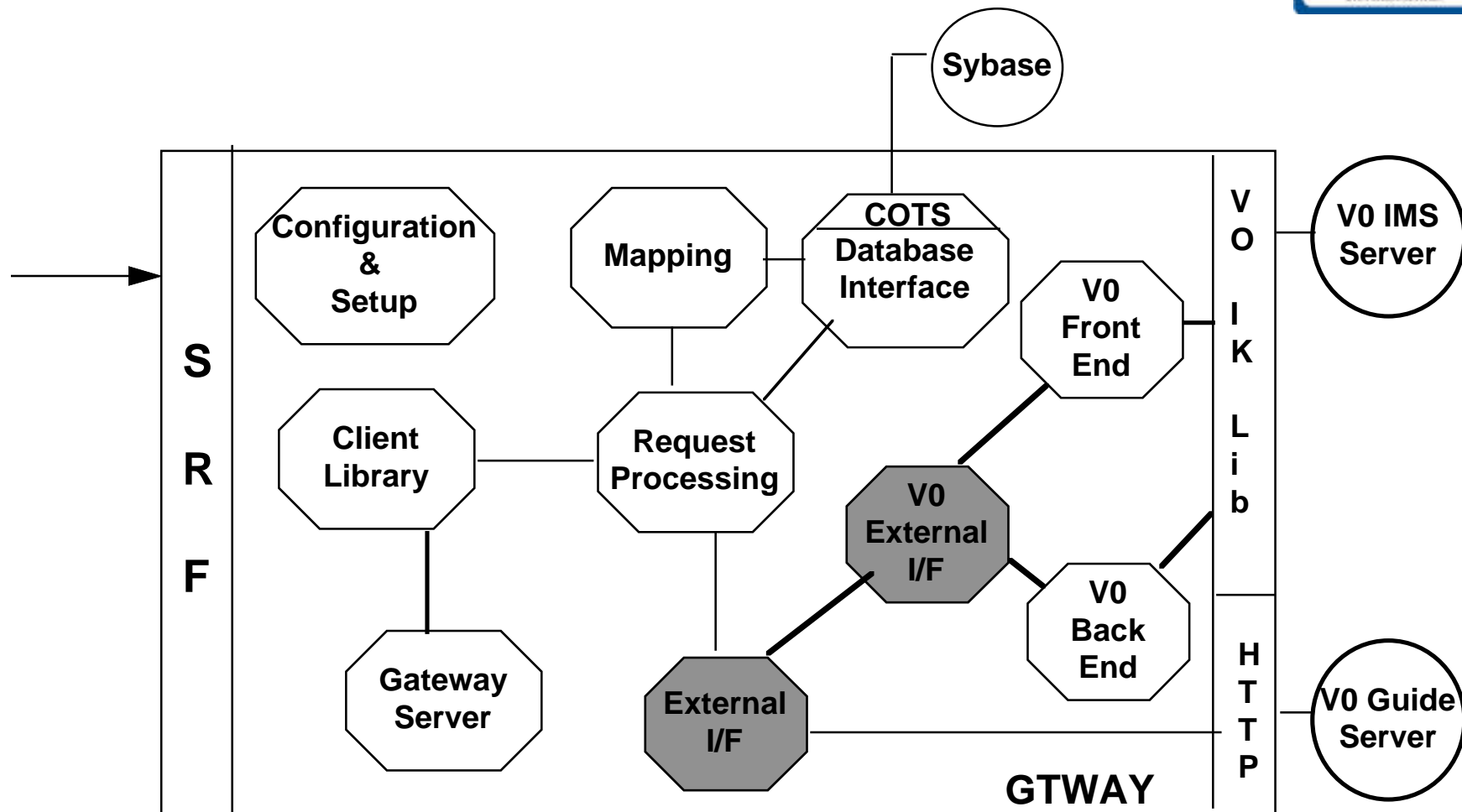
[gchang@eos.hitc.com](mailto:gchang@eos.hitc.com)

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**18 April 1996**



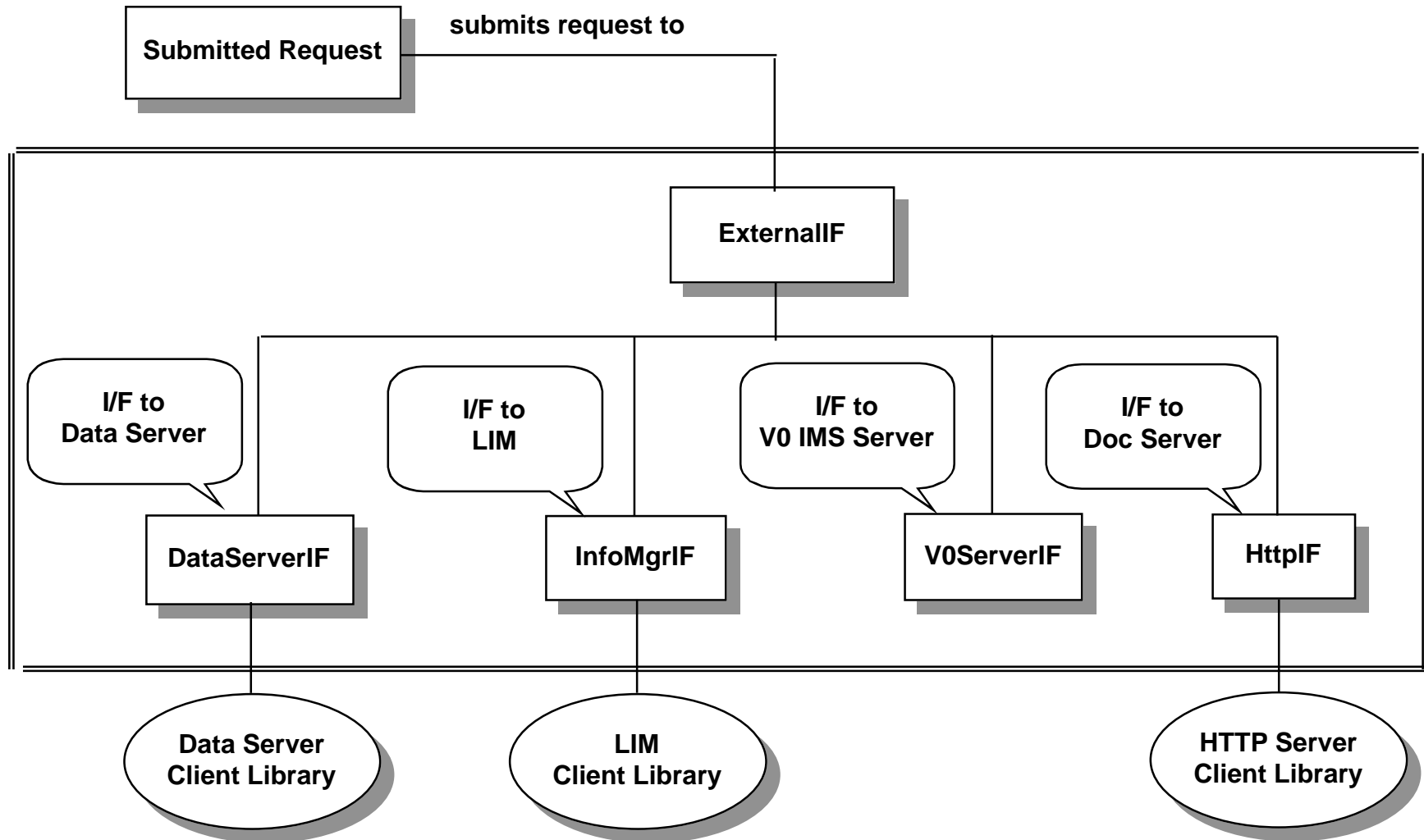
# CSCI Software Architecture



V0 IK Lib = V0 Kernel Library, HTTP = HTTP public domain library, SRF = Server Request Framework

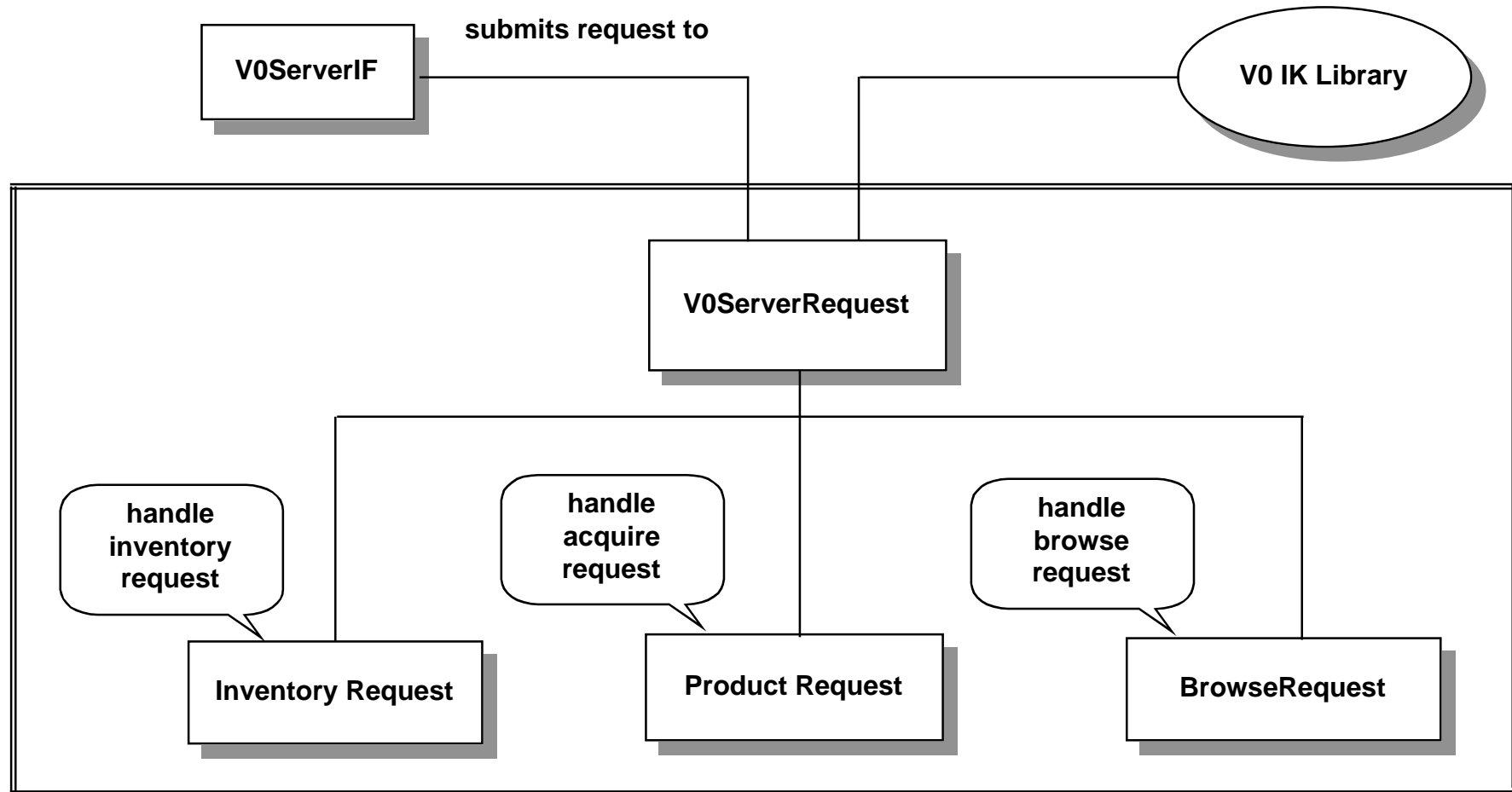


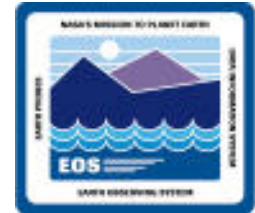
# High-Level External I/F Model





# High Level V0 External I/F Model

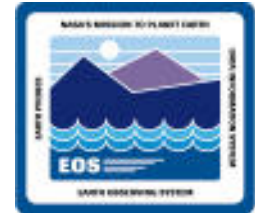




# Object Model

the following object models will be reviewed:

<u>Model Name</u>	<u>Document Reference</u>
ExtIF	
V0ServIF	DID 305 Page 7-9



# Dynamic Model

The following event traces will be reviewed:

<u>Event Trace Name</u>	<u>Diagram Name</u>
LIM-SDSRV External Search Request	ImIF_DSS_Inv



# LIM-SDSRV External Search Request

## Assumptions/ Preconditions

- A session has been established and user access privileges validated.
- The IM has been configured as a LIM.
- The destination server has been found (e.g. SDSRV).

## Functional Description

- Step 1: DataServerIF object is created to handle this request.
- Step 2: ESDTReferenceCollector object is created and a connection to Data Server is established.
- Step 3: Search request is identified by the DataServerIF object, and a Query object is created based on the input constraints.
- Step 4: The Query object is submitted to ESDTReferenceCollector object.
- Step 5: Results are obtained by the DataServerIF object and returned to the caller.